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(54) TRANSMISSION POWER CONTROL METHOD AND COMMUNICATION EQUIPMENT USING SAID TRANSMISSION POWER CONTROL METHOD

(57)Abstract:

PURPOSE: To allow the communication equipment to trace Rayleigh fading with high accuracy by suppressing the increase in transmission power in incoming transmission power control.

CONSTITUTION: A base station calculates a ratio of a desired wave signal reception power from a mobile station making communication to a sum of interference power and thermal noise power from other mobile station and discriminates whether or not the ratio is larger than or smaller than a prescribed ratio of desired reception signal power to interruption power to satisfy required quality. Then transmission power control bits being the result of discrimination are subject to spread spectrum processing onto signals of a transmission power control channel at a higher spread rate than that required to apply spread spectrum processing to information data onto signals of a communication channel and the signals of the transmission control channel are sent in parallel with signals of the control channel. Then a mobile station sends data with transmission power in response to the transmission power control bit obtained by demodulating the signal of the transmission power control channel from the base station.

